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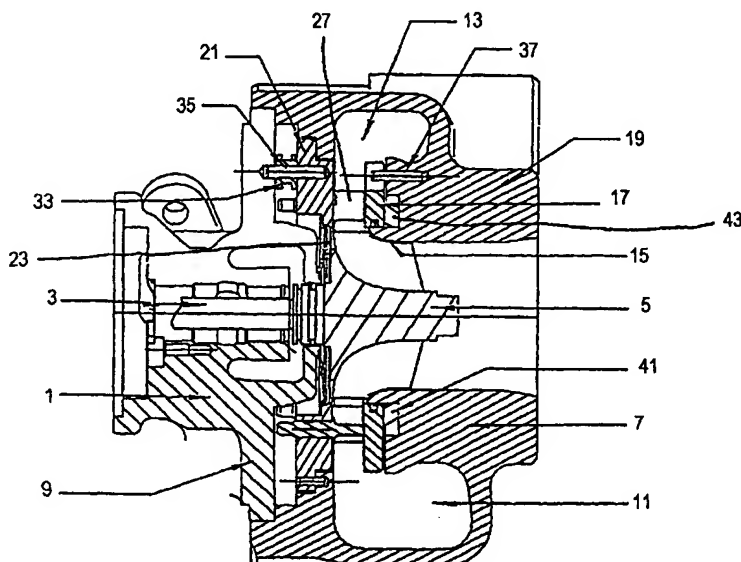
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(54) Title: TURBOCHARGER HAVING VARIABLE NOZZLE DEVICE



(57) Abstract: A turbocharger comprises a vane area formed between a nozzle element (21) and a floating insert (17) supported on the exhaust housing (7), wherein the floating insert (17) is urged against the vanes (27) located in the vane area by a biasing member (43). By means of this arrangement the turbine efficiency is increased and the risk of vane sticking is avoided to a large extent.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	US 2 976 013 A (ULRICH HUNTER DAVID) 21 March 1961 (1961-03-21) the whole document	1-3,7, 10-12 4,5
A	---	
X	EP 1 120 546 A (MITSUBISHI HEAVY IND LTD) 1 August 2001 (2001-08-01) abstract; figure 2	1-4,7,10 4,5
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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